Joint Test & Evaluation Program

Program Overview

Jim Thompson
Program Manager
JT&E Program
DOT&E

September 2005

Briefing Content

- **Overview and History**
- **Process**
- **Review and Approval**
- **Support Structure**
- **Current Projects**
- **Recent Accomplishments**

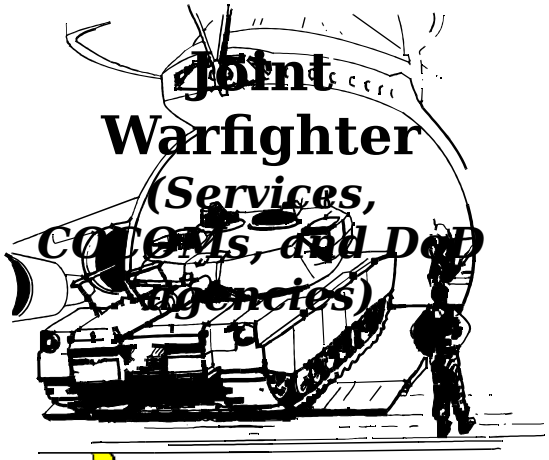
What is the JT&E Program?

- **DOT&E program to assist the warfighter in solving operational problems and issues through the development of tactics, techniques, and procedures; changes to operational processes; and C4ISR architectures**
- **Problems and issues are resolved using operational test and evaluation techniques; not experiments, not demonstrations**
- **Joint operational solutions are the principal products of JT&E projects – not hardware acquisition products**

How the Program Works?

- **Nominating organization proposes JT&E project to resolve operational issue**
- **Selected nominations are chartered and funded by DOT&E but led by the nominating Service or COCOM**
- **Joint Test team resolves the operational issue by finding a process solution**
- **Services and COCOMs team with JT&E Program to provide military personnel, test assets, and test venues and facilities**
- **Test products are new joint tactics, techniques, and procedures; architectures; and processes**

What is the JT&E Program?



Joint Warfighter *(Services, COCOMs, and DoD Agencies)*

Joint Issue Nominated

Selected Nominations Chartered

Nominator/Sponsor Leads Test Team

JT&E

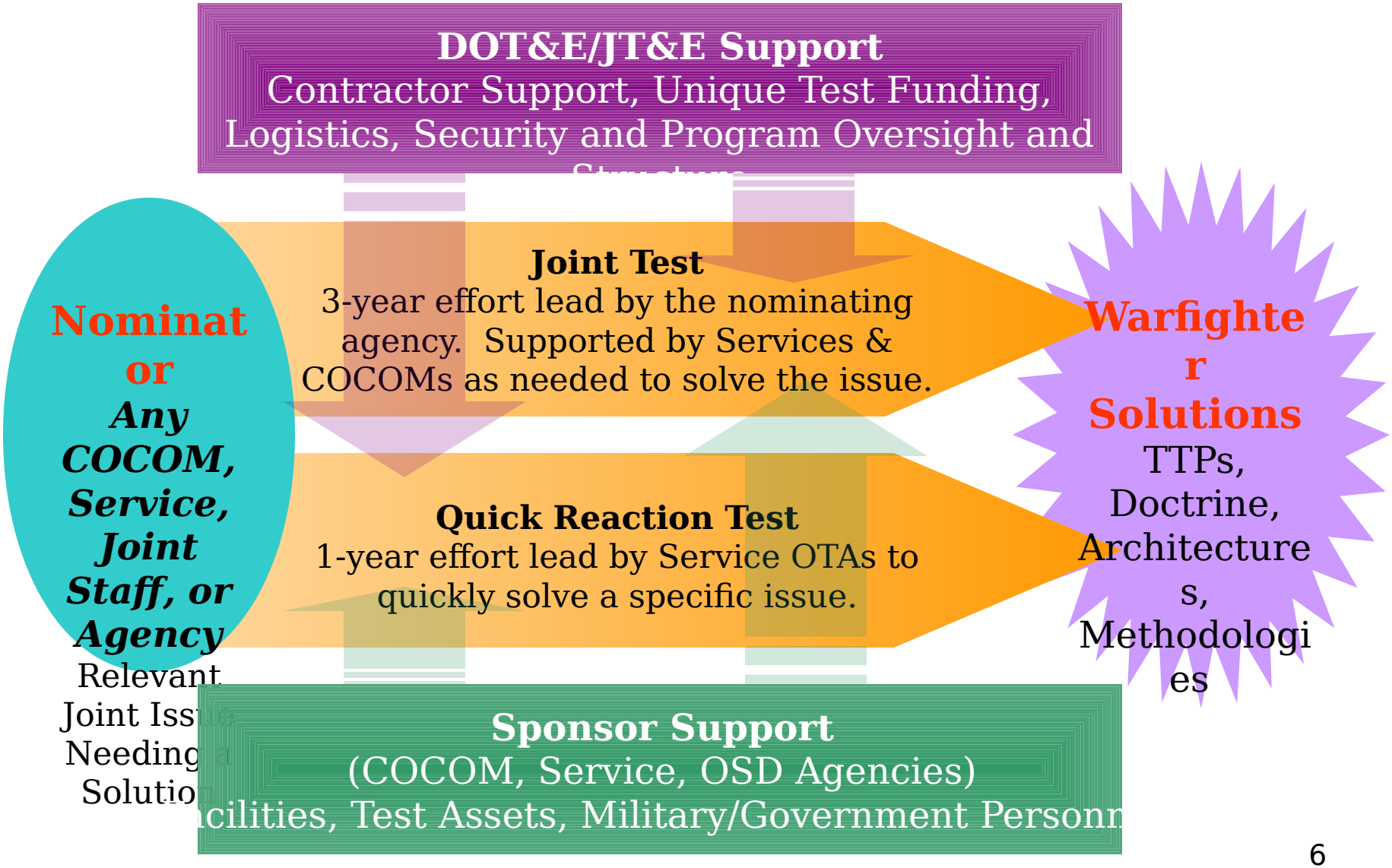
The catalyst for solving Joint interoperability issues

DOT&E Managed and Funded
Service and COCOM Resourced and Supported
Chartered to Produce a Joint Product

Successful Joint Interoperability

New JTTPs, architectures, and processes delivered to the Warfighter

Joint Test & Evaluation Methodology


DOT&E/JT&E Support
Contractor Support, Unique Test Funding, Logistics, Security and Program Oversight and
Nominator
Any COCOM, Service, Joint Staff, or Agency
Relevant Joint Issue Needing a Solution
Joint Test
3-year effort lead by the nominating agency. Supported by Services & COCOMs as needed to solve the issue.
Quick Reaction Test
1-year effort lead by Service OTAs to quickly solve a specific issue.
Warfighter Solutions
TTPs, Doctrine, Architectures, Methodologies
Sponsor Support
(COCOM, Service, OSD Agencies)
cilities, Test Assets, Military/Government Personn

Joint Test and Evaluation Purpose

- **Find ways for the warfighters to do their jobs better with today's equipment, organization, and doctrine**
- **Provide better tools and ways to test**
  - **Improve testing methodologies that have multi-Service applications**
  - **Improve modeling and simulation validity with field exercise data**
- **Provide feedback to the acquisition and joint operations communities**

Annual Budget – Approximately $40M

Joint Test and Evaluation Program

The Process

Two Avenues to Conduct Joint Testing

Quick Reaction Tests

- **Quickly addresses specific and focused warfighter question/issue within scope of JT&E program purpose**
- **Accelerated review, approval, execution**
- **Duration: 6-12 months (Nomination-to-Final Report)**
- **Sponsors: COCOMs, JFCOM, Services, OSD**
- **Executed by Service OTAs**
- **Product provides specific answer to a specific question**
- **Resourcing for OTA participation in accordance with JT&E guidelines**

Streamlined JT&E Projects

- **In-depth, methodical evaluation of issues within scope of JT&E program purpose**
- **Duration: 3 years maximum (Charter-to-Closedown)**
- **Sponsors: COCOMs, JFCOM, Services, OSD**
- **Executed by Service-led JT&E test teams**
- **Delivers defined and useful products to warfighter**
  - *Both interim and final products required*

Quick Reaction Test Process

- **Nominations generated from a variety of sources**
  - Direct from COCOMs, Joint Staff, Services, OSD
  - Pop-up “hot issues”
  - Regular JT&E Seminar/Conference to generate QRT proposals
  - Combatant Commander Field Assessment
- **Nominations reviewed for scope and feasibility**
  - Program Office and Joint Test Support Cell (JTSC) actively review
  - Joint Staff and JFCOM input solicited
- **Executive Steering Group (ESG) meets as needed to review and select nominations for QRTs**
- **Once approved, designated OTA leads the effort; maximum of one year for testing**

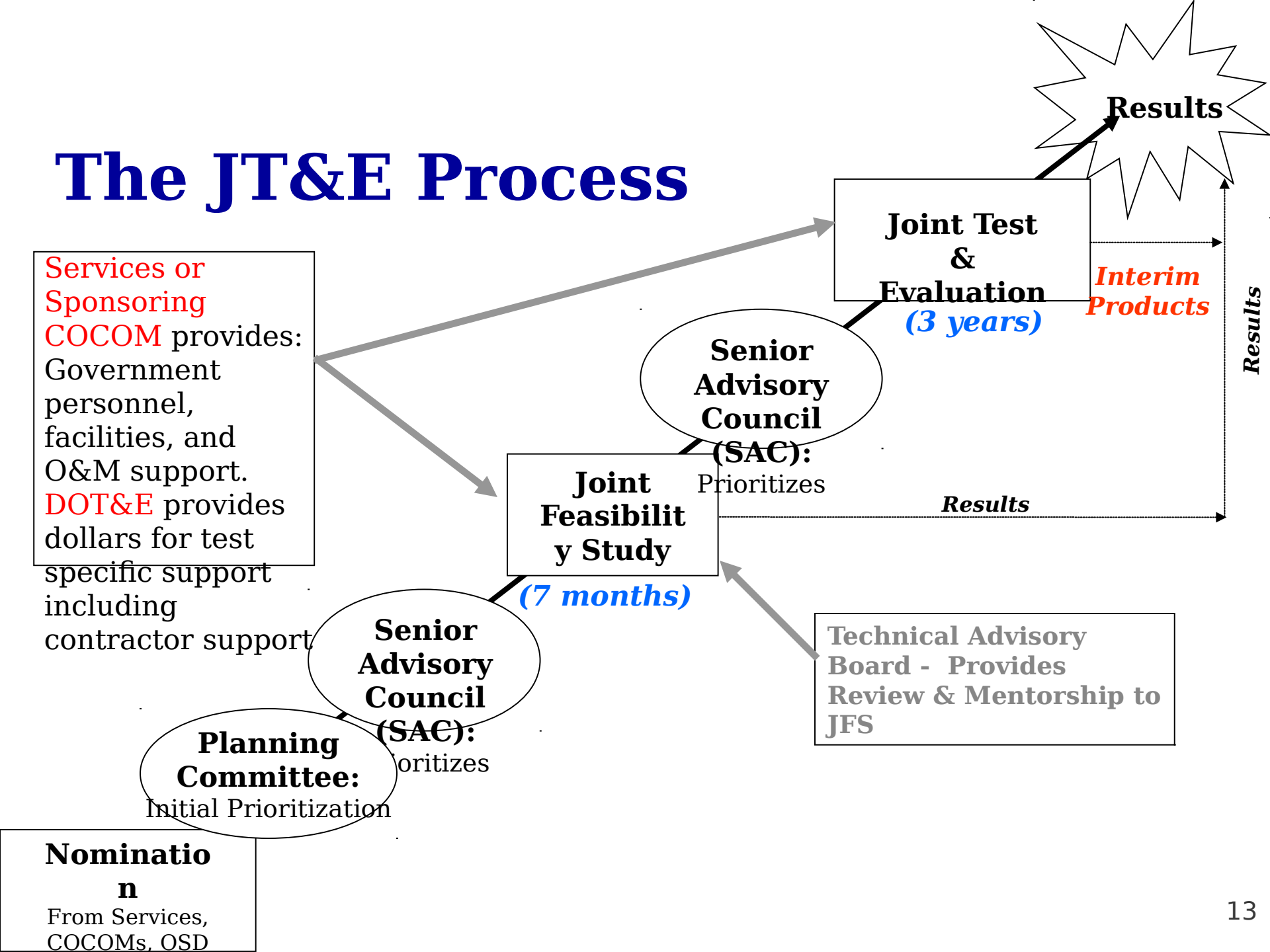
Joint Test Process

- **Process starts with “Call for Nominations” letter**
  - **Letter published in June**
- **Nominations generated from a variety of sources**
  - **COCOMs, Joint Staff, Services, OSD, and other agencies**
- **Planning Committee (PC) meets in November to review and recommend nominations**
  - **Nominations reviewed for scope and feasibility**
  - **PC members represent SAC member agencies and have equal vote**
- **Senior Advisory Council (SAC) meets in January to recommend Feasibility Studies**

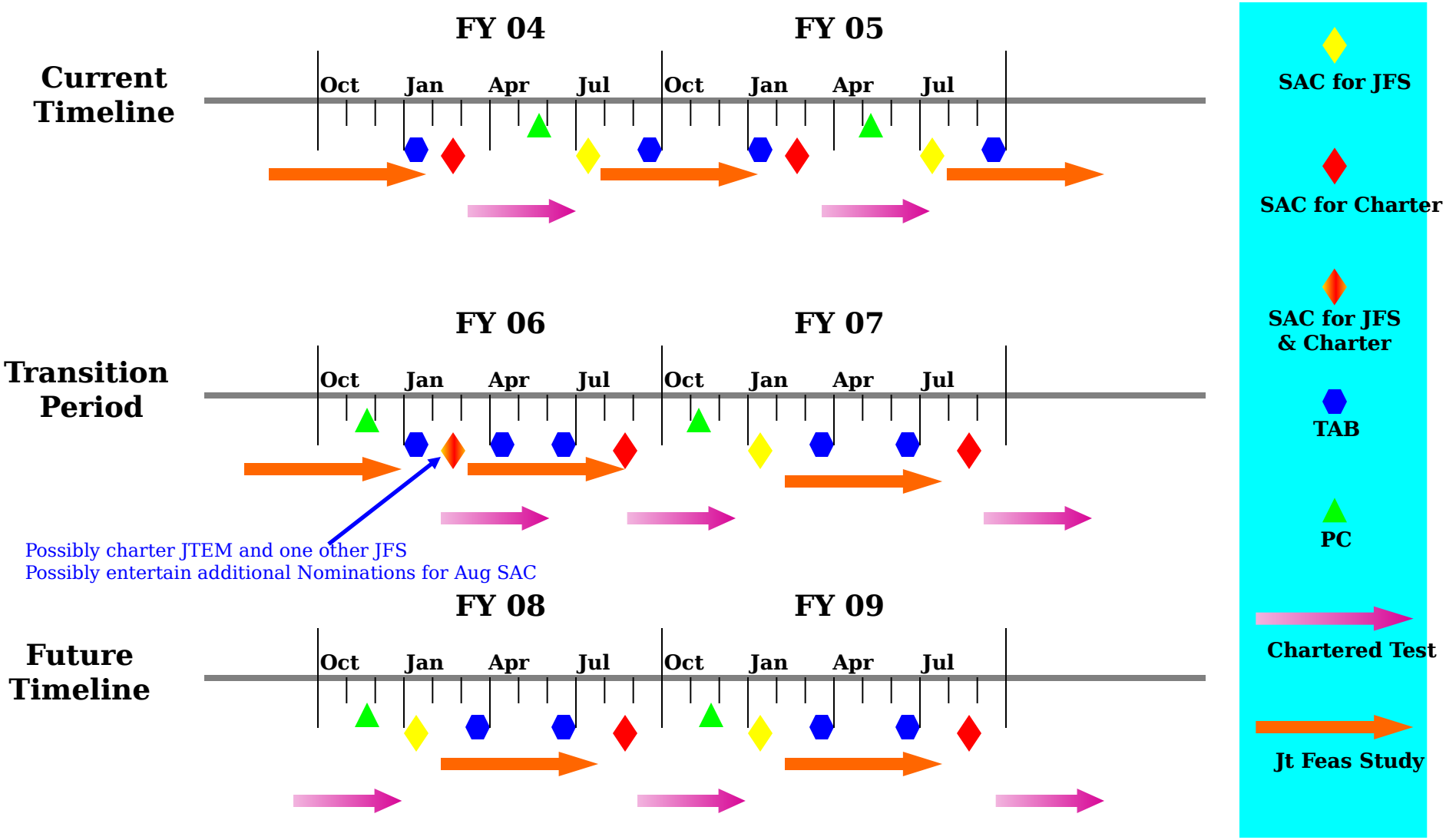
Joint Test Process
(continued)

- **Joint Feasibility Study (JFS)**
  - **Seven month effort, lead by a Service or COCOM**
  - **Resolve two basic issues: Is a JT&E necessary? Is a JT&E Feasible?**
  - **Technical Advisory Board (TAB) reviews and mentors JFS**
  - **Develop Program Test Plan and Consolidated Resource Estimate**
  - **Joint Test Support Cell (JTSC) and JFCOM Liaison assistance provided**
- **Senior Advisory Council (SAC) meets in August to recommend charter**
- **Chartered Joint Test**
  - **Three-year test effort to answer the "Problem Statement"**
  - **Service or COCOM lead; Sponsor provides infrastructure**
  - **DOT&E funds contract support and test unique requirements**
  - **Products focus on customer requirements**

The JT&E Process


Results
Joint Test & Evaluation
(3 years)
Interim Products
Results
Services or Sponsoring COCOM provides: Government personnel, facilities, and O&M support. DOT&E provides dollars for test specific support including contractor support
Senior Advisory Council (SAC): Prioritizes
Joint Feasibility Study
(7 months)
Results
Technical Advisory Board - Provides Review & Mentorship to JFS
Senior Advisory Council (SAC): oritizes
Planning Committee: Initial Prioritization
Nomination
From Services, COCOMs, OSD

JT&E Timeline Transition



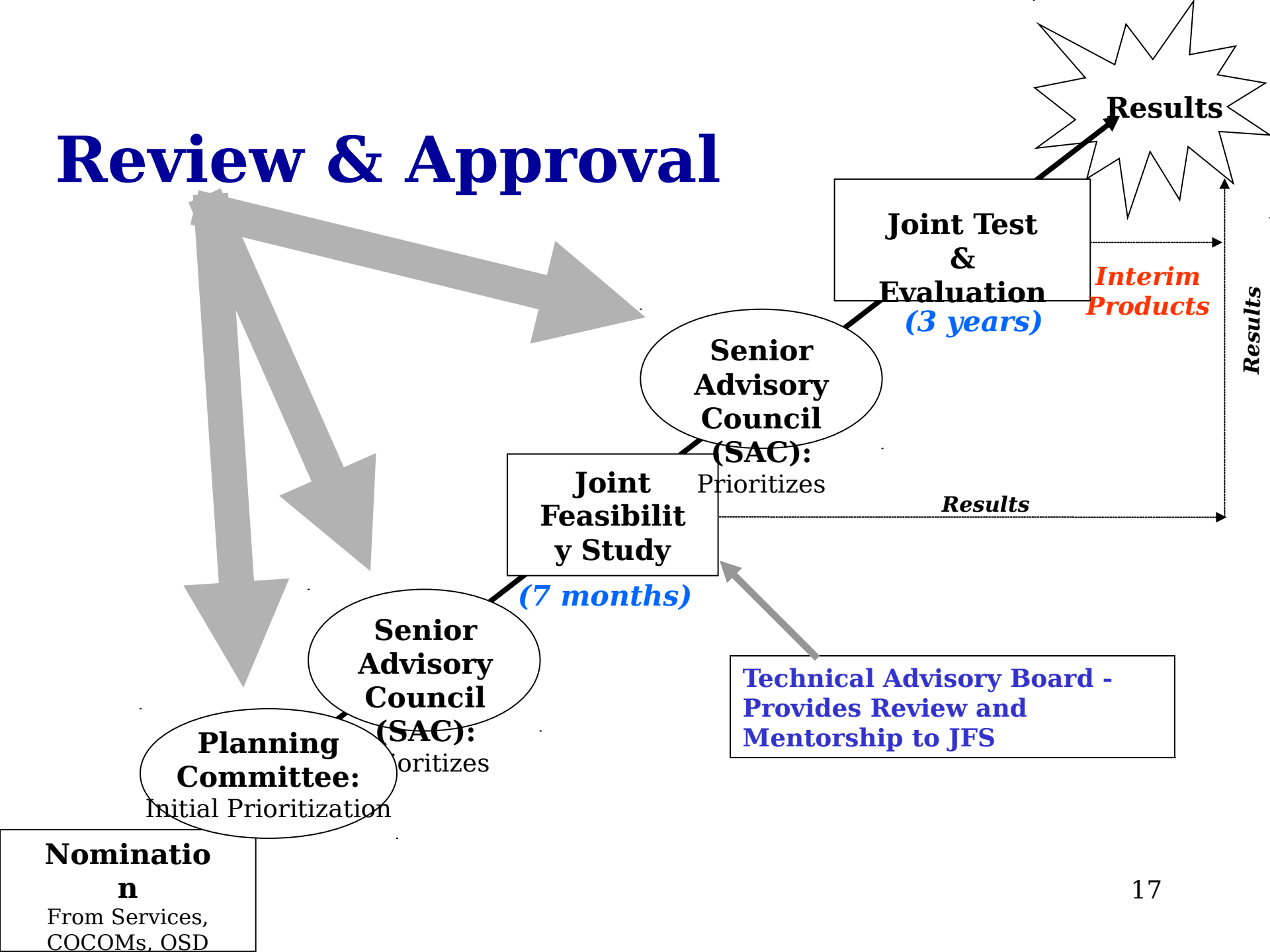
Coordination for Leveraging

- **DOT&E/JT&E is committed to partner with JFCOM**
  - Established JTSC near JFCOM
  - Funded liaison efforts for test coordination
  - Coordinating future JT&Es early with J7 Capabilities and Exercise Planners
- **JT&Es identify all potential training venues that could support testing**
  - Uses GOSC and joint working groups to identify potential venues
  - Coordinates with OTAs and Service schools to identify potential venues
- **Economies of Scale for test planning**
  - Each JT&E test is responsible for their individual test planning
  - Multiple projects using the same joint venue will have JTSC/LNO identified as lead JT&E integrator

Joint Test and Evaluation Program

Review & Approval

Review & Approval



Planning Committee

- **Action Officers for SAC members**
- **Review nominations**
  - **Do they meet the purposes of a JT&E?**
  - **Does the nomination support the tenants of JV 2020**
  - **Has the nominating organization committed the necessary resources?**
- **Prioritizes Nominations**
- **Recommends which nominations should brief the SAC**

Senior Advisory Council

- **Advisory board to DOT&E**
- **Reviews Nominations (January SAC meeting)**
  - **Based on Planning Committee (PC) recommendations**
  - **Consider purposes of nominations**
  - **Recommends priority of nominations for directing as a Joint Feasibility Study**
- **Reviews Feasibility Studies (August SAC meeting)**
  - **Considers necessity and feasibility (feasibility recommendation from the TAB)**
  - **Recommends priority for Charter as a Joint Test and Evaluation project**
- **Reviews completed Joint Tests and Evaluation projects**

Technical Advisory Board

- **Advisory Board to the JT&E Program Director**
- **Senior test analysts and scientists from the Services, OSD, and JFCOM**
- **Reviews the progress of Joint Feasibility Studies**
  - **Technical issues and feasibility**
  - **Makes recommendation to the SAC as to technical feasibility**
- **Reviews on-going Joint Test and Evaluation projects**
  - **Technical progress**
  - **Technical advise and guidance**
- **Conduct meetings in March and June**

Executive Steering Group

- **Advisory board to DOT&E**
- **Decision body for Quick Reaction Test (QRT) nominations**
  - **Group meets as nominations are submitted**
- **Responsible for final vetting and management oversight of QRTs**
- **Commit resources to support quick test planning and execution**
- **Approve lead OTA for selected QRTs**
- **Joint Staff and JFCOM vet QRT nominations for content, priority, and immediacy**

Joint Test and Evaluation Program

Support Structure

Support Structure

Concept

- **JT&E accepts the nominating agency as an expert in the subject area of the proposed issue**
- **Support structure is designed to provide an operational test team which compliments the nominator's expertise**
- **Services partner with JT&E to solve joint interoperability issues in the field**
- **Support structure is designed to stand-up test team, provide support, and disband quickly while maintaining the historical records in the program office**
- **JT&E structure uses the synergy, expertise, and knowledge of field organizations to find credible and relevant joint solutions**

Support Structure

Implementation

- **Program Office provides program management oversight, resources, and guidance on test team structure/approach**
  - **Functional guidance in; technical, contracting, financial, logistics, personnel, and security**
  - **Services align their support with JT&E guidance**
- **Services/COCOMs provide government personnel, facilities, and test assets**
- **JT&E provides contract support, travel funding, and test-unique equipment**
- **Oversight and document approval controlled by DOT&E**

Joint Test Support Methodology

...Full Service Support to Quickly Stand Up and Conduct a Joint Test

Nominator
Relevant Joint Issue Needing a Solution

Sponsor Support
COCOM, Service, OSD Agency

JT&E Program Office
Contracting, Funding, Logistics, Personnel, Security

Warfighter Solutions
TTPs, Doctrine, Architectures, Methodologies

Nominator finds a Joint Solution as a Chartered OSD Agent using Operational Test Methodology

Joint Test Team

Sponsor Support
- Subject Matter Expertise
- Personnel
- Facilities
- Test Assets

Contracting
- Task Award
- Task Funding
- Task Management
- Task Closeout

SCI Security
- NAG issue clearance
- Manage SCI Billets
- SCIF
- Secure Equipment Management

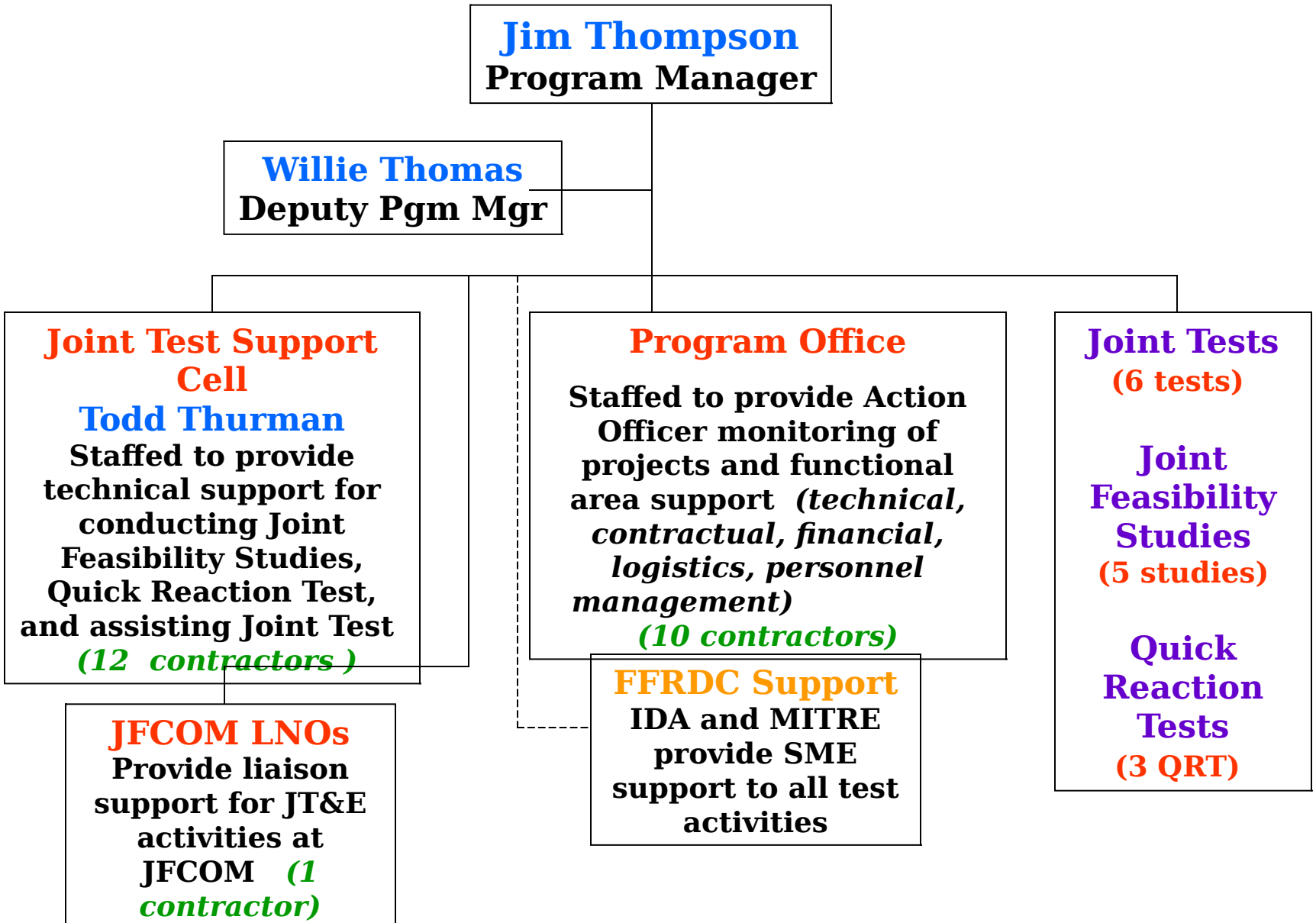
Financial
- Funding Unique Test Cost
- Government Travel
- Government Purchase Cards
- Funding Documents
- Financial Management

Technical
- Document Approval
- Technical Advisory Boards
- Joint Test Support Cell
- Action Officer Support

Logistics
- Property Acquisition
- Property Accountability
- Property Disposition
- Test Site Liaison

Personnel
- Efficiency reports
- Awards
- Promotion Boards

JT&E Program Structure


Jim Thompson
Program Manager
Willie Thomas
Deputy Pgm Mgr
Joint Test Support Cell
Todd Thurman
Staffed to provide technical support for conducting Joint Feasibility Studies, Quick Reaction Test, and assisting Joint Test
(12 contractors)
JFCOM LNOs
Provide liaison support for JT&E activities at JFCOM (1 contractor)
Program Office
Staffed to provide Action Officer monitoring of projects and functional area support (technical, contractual, financial, logistics, personnel management)
(10 contractors)
FFRDC Support
IDA and MITRE provide SME support to all test activities
Joint Tests
(6 tests)
Joint Feasibility Studies
(5 studies)
Quick Reaction Tests
(3 QRT)

JT&E Program Office Structure

Current Positions and Locations

rogram Office Function

Technical
- Document Approval
- Technical Advisory Boards
- Joint Test Support Cell
- Action Officer Suppo

Contracting
- Task Award
- Task Funding
- Task Management
- Task Closeout

Financial
- Funding Unique Test Cost
- Government Travel
- Government Purchase Cards
- Funding Documents
- Financial Management

Logistics
- Property Acquisition
- Property Accountability
- Property Disposition
- Test Site Liaison

SCI Security
- NAG issue clearance
- Manage SCI Billets
- SCIF
- Secure Equipment Management

Personnel
- Efficiency reports
- Awards
- Promotion Boards

Alexandria, VA

4 – Action Officers, to include budget development and outreac

1 – Technical Director

5 – Technical Staff, to include personnel reporting, editing, administration, security, outreach spt

Suffolk, VA

1 – JFCOM Liaison Officer

6 – IT Specialist, to include sys technicians, web & graphics, so

3 – Technical Staff, to include editor, property mgmt, resource

3 – Support Staff, to include security, administration, facility m

Vicksburg, MS

3 – Technical Staff, to include resource tracking and reporting, travel accounts, impact cards

Ft Walton Beach, FL

2 – Technical Staff, to include financial management, warehous

(Some personnel support from off-site locations)

QRT Responsibilities

- **DOT&E/JT&E Provides:**
  - **Funding for contract support and testing requirements**
    - $1M maximum for any QRT
    - Contract support must use JT&E GSA contract
  - **JTSC test expertise and liaison support**
- **Service OTAs Provide:**
  - **Test Director and core test cell**
  - **Test venues**
- **Nominating Agency Provides:**
  - **Subject matter expertise**

Joint Test Responsibilities

- **DOT&E/JT&E Provides:**
  - **Funding for contract support and testing requirements**
    - $12 to $16M Nominal Test funding
    - Contract support and unique test requirements funded by DOT&E
  - **JTSC test expertise and liaison support**
  - **Contract and financial management**
  - **Administrative and logistics support**
- **Sponsoring Service or COCOM Provides:**
  - **Test Director and facilities for JT&E/JFS**
  - **Subject matter expertise**
  - **Provide access to Service exercises, e.g., Blue Flag, Green Flag**
  - **Provide range and other test facilities**
- **Other Services or COCOMs Provide:**
  - **Subject Matter Expertise**

Leveraging Capabilities

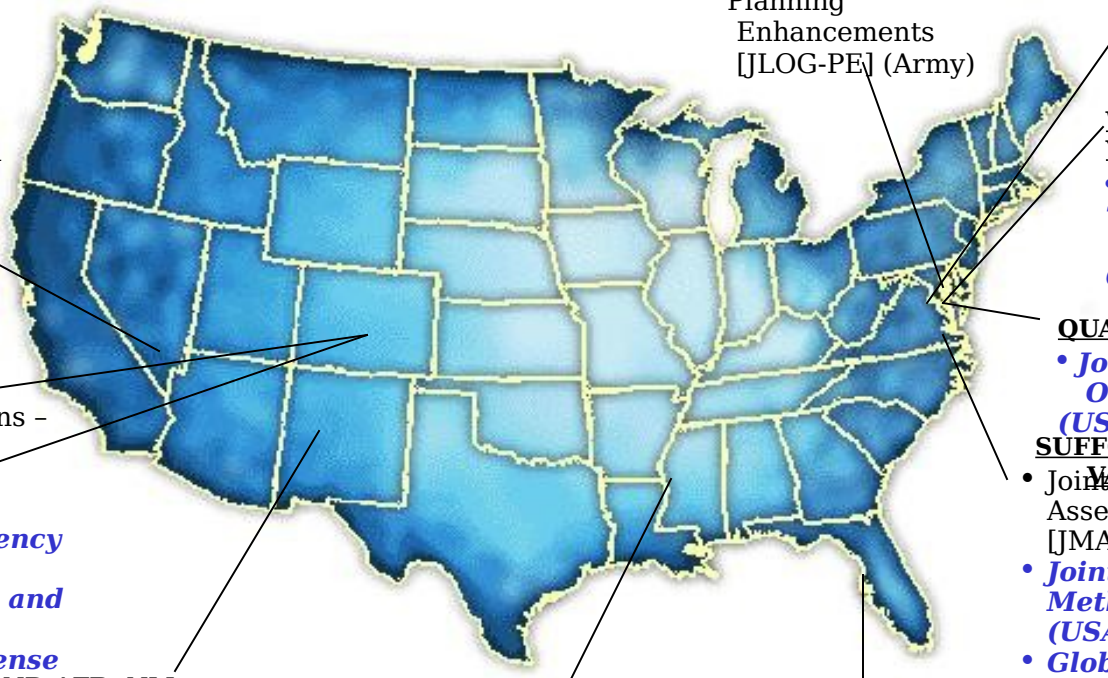
- **Service and COCOM Contributions**
  - Provide subject matter experts for the operational issue being resolved
  - Provide facilities and infrastructure support for the test team
- **DOT&E/JT&E Contributions**
  - Funds the contract support for the test team
  - Funds unique cost for executing the test
  - Provides liaison support to JFCOM
- **Test Planning; Program Test Plan Development Process**
  - Leverage any planned Joint, multi-Service, or Service training event to support the evaluation
  - Testing during training is non-interference
  - JT&E may pay cost of units to provide additional time

Joint Test and Evaluation Program

Current Projects

Current JT&E Locations

6 Tests, 5 Feasibility Studies, 3 Quick Reaction Tests, 10 Test Locations



APG, MD
- Joint Logistics Planning Enhancements [JLOG-PE] (Army)

ALEXANDRIA VA
JT&E Program Office

NELLIS AFB, NV
- Joint Data Link Information Combat Execution [JDICE] (USAF)
- Joint Fires Coordination Measures [JFCM] (USAF)

WASHINGTON NAVAL YARD, WASHINGTON, DC
- ***Joint C2 for War on Terror Precursor Operations [JC2WPO] (Navy)***

QUANTICO, VA
- ***Joint Mobile Network Operations [JMNO] (USMC)***

COLORADO SPRINGS, CO
- Joint Space Control Operations – Negation [JSCO-N] (USAF)

SUFFOLK, VA
- Joint Methodology to Assess C4ISR Architecture [JMACA] (Navy)
- ***Joint Test and Evaluation Methodology [JTEM] (USAF)***
- ***Global Combat Support System [GCSS] (Joint Staff J-4)***
- ***Joint Shipboard Ammunition and Ammunition Boards (JSAABR) (USSOCOM)***
- JT&E JFCOM Liaison
- Joint Test Support Cell

PETERSON AFB, CO
- ***Joint Integrated (Interagency and International) Command and Control for Maritime Homeland Defense [JICM] (NORTHCOM)***

KIRTLAND AFB, NM
- ***Joint Low Altitude Aircraft Survivability [JLAAS] (USAF)***

VICKSBURG, MS
- ***Joint Forward Operations Base Force Protection [JFOB] (Army)***

MACDILL AFB, FL
- Joint Integration and Interoperability of Special Operations [JIISO] (SOCOM/USMC/JFCOM)

Legend:
- Joint Test
- ***Joint Feasibility Study***
- ***Quick Reaction Test***
- JT&E Program Office Support

Joint Test Projects

- **Joint Logistics Planning Enhancement (JLOG/PE) - Investigate the overarching logistics command and control (C2) architecture, the information and process interfaces and enhancements possible to support requirements in the future joint force logistics and operations . Lead Service: USA**

- **Joint Methodology to Assess C4ISR Architecture (JMACA) - Develop and validate a methodology to assess C4ISR architectures as they relate to mission outcome. Produce planning and analysis tools for COCOMs and Services at the operational level. Lead Service: USN**
- **Joint Integration And Interoperability Of Special Operations (JIISO) - Test and improve the integration and interoperability of Special Operations Forces (SOF) and Conventional Forces (CF) mission planning and execution capabilities in support of joint missions. Test will evaluate current and enhanced joint tactics, techniques, and procedures (JTTPs) and supporting information environments (IE) used to plan and execute these tactical missions. Lead Command: USSOCOM**

Joint Test Projects

- **Joint Data Link Information (JDICE) - Evaluates JTTP to improve Link 16 information exchange capabilities and integrate ISR, C2, and shooter assets at the tactical employment level. Lead Service: USAF.**

- **Joint Space Control Operations (Negation) (JSCO-N) - Develops necessary C2 process and JTTPs to integrate and synchronize friendly space control negation capabilities (lethal and non-lethal) into the Joint Force Commander's targeting cycle. These offensive space control negation capabilities will deny, degrade, deceive, disrupt, and/or destroy an adversary's ability to utilize its space systems against friendly forces. Lead Service: USAF.**

- **Joint Fires Coordination Measures (JFCM) - Evaluate new JTTPs that are designed to standardize kill box procedures and enable theater commanders to more fully integrate component fires at the operational and tactical levels. Lead Service: USAF.**

Joint Feasibility Studies

Joint Test and Evaluation Methodology (JTEM)

Purpose: To investigate the processes and methods that support new testing capabilities and institutionalize the evaluation of joint mission effectiveness. The JFS will develop a PTP and strategy to focus on Joint test methodology for a particular system from an operational joint mission **Sponsor:** U.S. Air Force

Global Combat Support System (GCSS)

Test Purpose: Assess the capability for GCSS to provide joint operational logistics information and total asset visibility to the Combatant Commands (COCOMs) and Joint Task Forces (JTFs) to support informed and relevant decision-making.
Sponsor: Joint Chiefs of Staff J-4.

Joint Mobile Network Operations (JMNO)

Test Purpose: Develop, test, and evaluate Joint TTPs to resolve current limitations of wireless C2 transport in a mobile environment and allow users to traverse different network domains while on the move through the battle space. **Sponsor:** U.S. Marine Corps Systems Command

Joint C2 for War on Terror Precursor Operations (JC2WPO)

Test Purpose: Develop, test, and evaluate Joint TTP for JTF Forward Command Element when operating from clandestine command and control nodes. **Sponsor:** Naval Sea Systems Command (NAVSEA).

Joint Integrated C2 for Maritime Homeland Defense (JICM)

Test Purpose: Assesses joint command and control (C2) processes and procedures at the Combatant Command (COCOM) level to facilitate improved decision-making and operational employment of joint, intergovernmental, and multinational assets against

Quick Reaction Test

Joint Low Altitude Aircraft Survivability (JLAAS) (QRT)

Purpose: To investigate fixed and rotary wing aircraft operations in the low-altitude, low-speed environments for vulnerabilities to numerous potential threats including Man-Portable Air Defense Systems (MANPADS), rocket-propelled grenades (RPG), and small arms fire

Lead Service: U.S. Air Force **Location:** Kirtland AFB, NM **Sponsor:** USCENTCOM **Directed:** Sep 2004

Joint Forward Operations Base Force Protection (JFOB) (QRT)

Purpose: Examine current tactics, techniques, and procedures that the Services employ for FOB force protection and provide recommendations and solutions to develop a standard of protective measures to be implemented by the Services

Lead Service: U.S. Army **Location:** Vicksburg, MS **Directed:** Feb 2005

Joint Shipboard Ammunition and Ammunition Boards (JSAABR) Quick Reaction Test (QRT)

Purpose: Investigates, evaluates, and makes recommendations to expand, refine, further validate, and exercise the process to certify existing non-Naval weapons systems for shipboard use that was initially developed by the JSWORD QRT. The JSAABR QRT will also determine how the Joint Weapons Safety Technical Advisory Panel (JWSTAP) may facilitate certification of non-Navy materiel for shipboard use.

Lead Service: USSOCOM **Location:** Suffolk, VA **Directed:** August 2005

Joint Test and Evaluation Program

Recent Accomplishments

OT&E Contributions to OEF, OIF
JT&E Projects and Quick Reaction Tests (QRTs)

- **Joint Survivability** (QRT) developed and delivered convoy survivability procedures to USCENTCOM to minimize combat casualties. Approximately 90% of deployed convoys are using these procedures. Over 10,000 handbooks have been published, numerous more printed from web sites, and SOCOM is completing a DVD video of the handbook to distribute as a training tool.
- **Joint Unmanned Air Vehicles** provided warfighters with baseline UAV JTTPs. Deployed personnel to the USCENTCOM Air Operations Center to assist in UAV tactics, techniques, and procedures development.
- **Joint Cruise Missile Defense** provided hardware and software tools and a quick assessment of events to defend against cruise missile shots.
- **Joint Logistics/Planning Enhancement** assisting the USCENTCOM J4 staff in improving the process of acquiring and assimilating logistics information to provide a daily status to the USCENTCOM leadership.

OT&E Contributions to OEF, OIF
JT&E Projects and Quick Reaction Tests (QRTs)

- **Joint Command, Control, Intelligence, Surveillance, and Reconnaissance** assisted USCENTCOM, USCENTAF, and Second Fleet in revising the ISR-related portions of time-sensitive targeting (TST) concept of operations and related TTP documents.
- **Joint Battle Damage Assessment** developed a computer-based training package to rapidly instruct large cadres of Reserve augmentee BDA analysts at USCENTCOM-rear and USCENTAF-forward. Provided four enhancements for implementation to the battle damage assessment process.
- **Joint Shipboard Helicopter Integration Process** assisted the USS Kitty Hawk (CTF70) and deployed Special Operations Forces during Operation Enduring Freedom to employ the aircraft carrier as an Afloat Forward Staging Base.

Joint Test & Evaluation Bottom Line

- **A quarter century legacy of <u>supporting the warfighters</u>**
- **On the leading edge of developing new tactics, techniques, procedures, & capabilities**
- **Making inventory military systems more effective and capable**
- **The JT&E Program is managed by DOT&E, but it requires active participation and support of the Services, OSD Agencies, Joint Staff, JFCOM, and other COCOMS**

www.jte.osd.mil